

CERTIFIED CONCRETE TECHNICIAN TRAINING COURSE AGENDA

<u>Title-Time</u>	<u>Subjects</u>	<u>Instructor</u>	<u>Reference</u>
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Monday Morning
Moderator: Ron Walker

Introduction

10:00 to 10:15	Opening Comments Agenda/Manual Update Technician Requirements QC/QA Concepts	Ron Walker
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Math for Concrete

10:15 to 11:00	Metrics Round-Off Rules Basic Math	Ron Walker	Chp 1
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Materials for Concrete

11:00 to 11:30	Cement	Tom Grisinger	Chp 2
11:30 to 12:00	Mineral Admixtures	Tom Grisinger	Chp 2
12:00 to 1:00	**LUNCH**		

Monday Afternoon
Moderator: Ron Walker

Materials for Concrete (continued)

1:00 to 1:30	Chemical Admixtures	Marvin Obermeyer	Chp 2
1:30 to 2:00	Aggregates Steel Evaporative Retardants	Ron Walker Tony Zander	Chp 2

Mix Design of PCC

2:00 to 2:30	Specification Requirements CMD Targets Material Availability INDOT Approval	Tony Zander	Chp 3
2:30 to 2:45	**BREAK**		

Proportioning

2:45 to 5:00	Weight/Volume Relationship	Tony Zander	Chp 3
7:00	Individual Help (Holiday Inn Express)		

Tuesday Morning
Moderator: Ron Walker

Homework Review

8:00
to
8:15

Answers & Discussion

Tony Zander

Linear Equation

8:15
to
9:30

Unit Wt. vs. Air Content
for CMD

Tony Zander

Chp 3

9:30 to 9:45

****BREAK****

Linear Equation

9:45
to
12:00

Unit wt. vs. Air Content
at Max. Allowable $W/(C+P+SF)$
INDOT Approval

Tony Zander

Chp 3

12:00 to 1:00

****LUNCH****

Tuesday Afternoon
Moderator: Ron Walker

Field Testing Equipment

1:00 to 2:15	Unit Weight Air Content Compressive Strength Equipment Calibration	Gary Mithoefer	Appendix C
2:15 to 2:30	**BREAK**		

Testing Procedures

2:30 to 3:30	Requirements AASHTO Exceptions Problem Areas	Gary Mithoefer	Appendix B
3:30 to 3:45	**BREAK**		

Trial Batch Demonstration

3:45 to 5:00	Purpose Preparation Allowable Adjustments Case Studies	Tony Zander	Chp 4
7:00	Individual Help (Holiday Inn Express)		

Wednesday Morning
Moderator: Ron Walker

Homework Review

8:00
to
8:30

Tony Zander

Trial Batch Demonstration (continued)

8:30
to
10:00

Tony Zander

Chp 4

10:00 to 10:15

****BREAK****

Quality Control -- Field Operations

10:15
to
11:00

Concrete Production
Concrete Delivery

Jim Phillips

Chp 5

Quality Control -- Field Operations

11:00
to
12:00

Concrete Placement

Gary Brown

Chp 5

12:00 to 1:00

****LUNCH****

Wednesday Afternoon
Moderator: Ron Walker

Quality Control -- Field Operations

1:00 to 1:30	Finishing and Curing Form and Falsework Removal Load Application	Tony Zander	Chp 5
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Sublot and Lot Sizes

1:30 to 2:00	Terms and Definitions Project Examples	Ron Walker	Chp 6
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Quality Control -- Minimum Specification Requirements

2:00 to 2:30	General Scope Specification Requirements	Ron Walker	Chp 7
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2:30 to 2:45	**BREAK**		
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Quality Control (continued)

2:45 to 3:15	Quality Control Plan	Ron Walker	Chp 7
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Quality Control (continued)

3:15 to 4:00	Industry Perspective	Don MacDonell	
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Computer Demonstration

4:00 to 4:30		Tony Zander Gary Mithoefer	
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7:00	Individual Help (Holiday Inn Express)		
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Thursday
Moderator: Ron Walker

Lab Demonstration at INDOT Materials & Tests

8:00
to
12:00

12:00 to 1:00 **LUNCH**

Homework Review

1:00
to
2:00

Tony Zander

Quality Assurance

2:00
to
2:30

Random Sampling
Specification Requirements

Ron Walker

Chp 6

2:30 to 2:45 **BREAK**

Quality Assurance (Continued)

2:45
to
4:00

Adjustment Points

Ron Walker

Chp 6

Failed Material Investigation

4:00
to
4:30

Specifications
INDOT Responsibility
Contractor Options

Tony Zander

Chp 6

7:00 Individual Help (Holiday Inn Express)

Friday
Moderator: Ron Walker

Course Test

8:00
to
12:00

Written Exam

Chuck Scholer